Friday, August 06, 2010 12:38:01 PM



Page 1

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/6/2010

QC:

Start Oty: 1.00

Req'd Qty: 1.00 Required Date: 8/20/2010

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Revision Nbr

Date:

Date: 12-8-06 Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop



Sequence ID/ Work Center ID Operation

Set Up/

Tool ID

Tool # Plan

Reject Accept

Run

Reject

110-8-04

Insp.

Draw Nbr

Description

Run Hours

Qty Code

Qty

Number

Stamp

D2580 Rev D

100

DOCUMENT CONTROL

Memo

Document Control

0.00

0.00

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

110

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

1-Bend as per program D2580.C on CNC Bender and Folio 16

2-Cut tubes as per Dwg. D2580

3- scribe batch# in aft end of tube

D JUB 10-08-19

W/O:		WORK ORDER CHANGES			1		
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector
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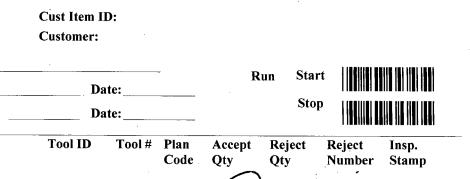
Part No: _	, c	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
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Page 2

Friday, August 06, 2010 12:38:01 PM Item ID: D205-634-041 Accept **Revision ID:** Item Name: Replacement Skidtube **Start Date:** 8/6/2010 Start Qty: 1.00 Required Date: 8/20/2010 Req'd Qty: 1.00 Reference: **Process Plan:** Date: Approvals: **Tooling:** QC: Date: SPC (Y/N): Sequence ID/ Operation Set Up/ **Work Center ID** Description **Run Hours** 120 0.00 Skidtubes 0.00 Memo Skidtubes 1- Deburr ends 2- C'sink holes as per dwg without cutting fluid 3- Prepare tube for welding, remove alodine as required.



Setup Start

Stop

130

QC5- Inspect part completeness to step on W/O

4- Scribe batch number insied aft end of tube.

0.00

QC

Memo

0.00

BE 10/0

Quality Control

	5					-					
W/O:			WORK ORDER CHANGES								
DATE	STEP	PROC	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Resolution:			_ Disposit	QA: N/C Closed: Date: _							
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Friday, August 06, 2010 12:38:01 PM



Page 3

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/6/2010

Start Qty: 1.00

Operation

Description

Required Date: 8/20/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

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Annrovals Process Plan:

Date: Date: Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Tool ID

Date:

Code

Stop

Reject

Qty

Reject

Number

Sequence ID/ **Work Center ID**

140

Skidtubes Skidtubes

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and QSI 0942 A/R□□□ Aluminum Rod

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill

A/R□□□ Aluminum Rod

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

Run

Accept

Qty

Start



Insp.

Stamp

Tool # Plan

W/O:				ę •	, ,,						
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Friday, August 06, 2010 12:38:01 PM



Page 4

Item ID:

D205-634-041

Accept



Setup Start

Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/6/2010

Start Qty: 1.00

Req'd Qty: 1.00 Required Date: 8/20/2010

Date: _____

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:_____

Tooling:

SPC (Y/N):

Date:

Date:

Start Run

Stop

Stop

Sequence ID/ Work Center ID

150

Quality Control

Operation **Description**

QC10- Inspect visual per QSI004- ground welds

Set Up/

Run Hours

Tool ID

Tool # Plan Code

Accept Qty

Reject **Qty**

Reject Insp. Number Stamp

0.00

Nolos/Su

160

QC

Quality Control

QC5- Inspect part completeness to step on W/O

rsladler &

170

HandFinish

Pressure Wash per QSI005 4.3

Memo

Memo

0.00

0.00

=> N 10 10 8/25 - 1 8

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd

cap out of solution.

Dart Ae	rospace	Ltd								
W/O:			WORK ORDER CHANGES							
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Friday, August 06, 2010 12:38:01 PM



Page 5

Item ID:

D205-634-041

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/6/2010

Start Qty: 1.00

Required Date: 8/20/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: Date:_____

Tooling:

0.00

SPC (Y/N):

Date:

Date:

Start

Stop

Stop



Sequence ID/ **Work Center ID**

180

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Set Up/

Run Hours

Tool ID

Tool # Plan Code

Accept Qty

Run

Reject Reject Qty

Insp. Number Stamp

Memo

Memo

START TIME: OVEN TEMPERATURE

FINISH TIME:

Bl 18-8-26.

190

QC

Quality Control

QC3- Inspect Part Finish

0.00

10/08/26

W/O:			WORK ORDER CHANGES										
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	R	esolution:							Date: _				
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Page 6

Friday, August 06, 2010 12:38:01 PM Item ID: D205-634-041 Accept Setup Start **Revision ID:** Stop Item Name: Replacement Skidtube **Start Date:** 8/6/2010 Start Oty: 1.00 **Cust Item ID: Required Date: 8/20/2010** Req'd Qty: 1.00 **Customer:** Reference: Run Start Approvals: Process Plan: Date:_____ Tooling: Date: Stop SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Tool # Plan Tool ID Reject Set Up/ Accept Reject Insp. Work Center ID **Description Run Hours** Code Qty Qty Number Stamp 200 0.00 10/08/26 HandFinish Memo Hand Finishing 1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates A/R DDD Sikaflex-291 DMIIS/700 Sikaflex expire date: 1100 2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580 3-Inspect for foreign object per OSI 024 4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive

Batch: 1110020

A/R □ □□ Sikaflex-291 □ <u>^//1</u>5回回 Sikaflex expire date: 1101

5-Wing Walk as per Dwg D2580 and QSI 005 4.4

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	IANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Page 7

Item ID:

D205-634-041

Accept



Setup Start



Reject

Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/6/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:_____

Tooling:

Date:

Tool # Plan

Code

Date:

Run

Start

Stop

Reject

Qty

Number Stamp

Insp.

Sequence ID/

Work Center ID

210

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

0.00

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per QSI 024

Packaging Packaging

Packaging

Memo

Memo

Memo

0.00

0.00

Identify and pack for shipping as per PPPD205-634-041

Location: PPP Rev

230

220

QC21- Final Inspection - Work Order Release

0.00

Quality Control

- 10/08/30 fg CLIOI 8/30

0.00

Required Date: 8/20/2010

Date:_____

SPC (Y/N):

Set Up/

Run Hours

Qty

Accept

2 -5

Dart Aerospa	ace Ltd
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W/O:			WORK ORDER (CHANGES			•	
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
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Picklist Print

Friday, August 06, 2010 12:38:05 PM

Work Order ID: 61114

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/6/2010

Required Date: 8/20/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Date Status Issued Issued
D2580-1 205 Skidtube bent detail		Manufactured	No			i10 ·	Each	4.0000		1 3 ~ G <i>((9</i> in	MB 10-08-
		e.		Location	•	Loc Q	<u>ty</u>	Loc Code			T
* + .				LG ST046	57028		1 1 2		_	·	
					59856 59913		2				
D2576-3 Step (maching detail)		Manufactured	No	·		140	Each	84.0000		1	
				Location		Loc Q	ty	Loc Code			,
					46661 52215		84 36 48		<u> </u>		BE 10/08/23
D2579		Manufactured	No		J421J	140	Each	327.0000	20	20	/ /

D2579 Crossbolt Spacer

Location Loc Qty LG 327

Loc Code 57052 5 57348 58433 2 59113 182 60845 134

20 BE n/08/23

Dart Ae	rospace	e Ltd							
W/O:			WC	ORK ORDER CHANGE	S				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:		V	WORK ORDER NON-CONFORMANCE (NCR)			7)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	Sign &	& Secti	cation ion C	Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng	Date				
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Friday, August 06, 2010 12:38:05 PM

Work Order ID: 61114

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/6/2010

Required Date: 8/20/2010

Start Qty: 1.00

Required Qty: 1.00

D2855

Cap

Manufactured

Purchased

No

No

200

Each 81.0000

Location Loc Qty Loc Code FP6 56613 ST026 80 50513 50770 28 2 53791 49

Each

200

1,542.000

14/0/08/28

AN3-5A

Bolt

Location	Le	oc Qty
ST350		1542
(05057)		542
115016		500
115371		500
	200	Each

Loc Code

2,633.000

V7 M 10/08/26

AN960JD10L NAS1149D0332J Purchased

Washer

Location ST348

110985

Loc Qty 2633

2633

Loc Code

W 30 10 10 8 126

W/O:		WORK ORDER CI	HANGES				3
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No) :	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	

Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____

NCR:		W	ORK OR	DER NON-CONFORMANC				
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	cription Sign & Date		Approval Chief Eng	Approval QC Inspecto

Friday, August 06, 2010 12:38:05 PM

Work Order ID: 61114

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/6/2010

Required Date: 8/20/2010

Start Qty: 1.00

Required Qty: 1.00

ALS7-1032-130



Insert

Purchased

Purchased

No

200

Each

878.0000

50 50

Location Loc Oty Loc Code FP 861 115079 861 25/80/01 M 008/26 11114723 ST282 17 113238 17 ·

AN3C4A

BOLT

No

Location

200

Loc Oty

Each

1,889.000

Loc Code

50

50

ST350 1889 114108 14 114416 114523 (114941) 115300

No

12 2 861 1000 Each

750 M 10/08/26

AN960C10L

washer

NAS1149C0332

Purchased

29.0000

50 50

Location Loc Qty Loc Code ST245 29 107534 29

200

x5014 10108(26

1115000

W/O:			WORK ORDER CHANGES Approval A							
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NCR:			WORK ORDE	R NON-CONFORM	ANCE ((NCR)	Verification Approval			
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DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date				QC Inspector
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Friday, August 06, 2010 12:38:05 PM Work Order ID: 61114 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube **Start Date: 8/6/2010** Required Date: 8/20/2010 Start Qty: 1.00 Required Qty: 1.00 D3566-13 Manufactured 200 33.0000 Each Gasket Location Loc Qty Loc Code FP 53461 2 FP012 31 35/80101 HEIX 59661 23 8 D3566-5 Manufactured No 200 Each 36.0000 1 Gasket Location Loc Qty Loc Code FP 22 60869 22 FP015 14 95/80/01 *(*59158 14 D3566-1 Manufactured No 200 Each 30.0000 Gasket

Location	Loc Oty	Loc Code	
FP	13		
(6 <u>0857</u>)	13		V290 10108/26
FP015	17		
57715	2		
59126	3		
60202	12		

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Friday, August 06, 2010 12:38:05 PM

Work Order ID: 61114

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/6/2010

Required Date: 8/20/2010

Start Qty: 1.00

Required Qty: 1.00

D3564-11



Wearshoe

Manufactured No 200

200

Each

8.0000

D3564-13

Wearshoe

Manufactured No FP019

Location

Loc Qty

Each

Loc Code

31.0000

108126 W

10/08/26

Location FP17



Loc Oty 31 19 12

Loc Code

D3564-9



Wearshoe

Manufactured No

200

Each

24.0000

FP019

FP

Location

55334

Loc Qty

Loc Code

72/80/01 MIX

Dart Aerospace L	td	L	e:	ac	pa	S	ro	e	Α	rt)a	
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Friday, August 06, 2010 12:38:05 PM Work Order ID: 61114 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 8/6/2010 **Required Date: 8/20/2010** Start Qty: 1.00 Required Qty: 1.00 D3564-5 Manufactured 200 Each 27.0000 Wearshoe Location Loc Qty Loc Code FG 34806 FP19 2 57525 58709 FP-19 24 59157 11 N 9 4 4 108 / 26 13 D2594-3 Manufactured No 200 Each 379.0000 16 16 O-Ring, 205 Skidtube Location Loc Qty Loc Code FP 379 55546 19 12 58191 \$9358 348 D2594-1 Manufactured 200 No Each 419.0000 16 16 Plug, 205 Skidtube Location Loc Qty Loc Code FP 183 42807 112 55002 71 FP14 236 58434 47 V16 M 6/08/24 189

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DESIGN	DRAWN BY	DART AEROSPACE LT HAWKESBURY, ONTARIO, CANADA	D ,*
CHECKED	APPROVED	DRAWING NO.	REV. D
9	T #	D2580 SHE	ET 1 OF 3
DATE		TITLE	SCALE
07.02.2	.7	205 SKIDTUBE ASSEMBLY	NTS
Α	96.09.16	NEW ISSUE	•
В	96.12.02	AS MANUFACTURED	
С	98.08.26	REDRAWN, INCLUDED DEO 9094/9	9097
D	07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/91	83



QTY -041	QTY -045	Part Number	Description	
Х		D2580-041	SKIDTUBE ASSEMBLY	
	Х	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	
20	24	D2579	CROSS BOLT SPACER	Qiro
16	16	D2594-1	PLUG	SHOP COPY
16	16	D2594-3	O-RING	RETURN TO
1	1	D2596	205 WEB	ENGINEERING
1	1	D2855	AFT CAP	UNCONTROLLED CORV.
1	1	D3564-5	WEARSHOE	SUBJECT TO AMENDMENT
1	1	D3564-9	WEARSHOE	WITHOUT NOTICE
1	1	D3564-11	WEARSHOE	WORK ORDER
1	1	D3564-13	WEARSHOE	"OKK ORDER
2	2	D3566-1	GASKET	-4419
1	1	D3566-5	GASKET	2.160
1	1	D3566-13	GASKET	PA10-8-0C
50	50	ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT	
50	50	AN3C4A	BOLT	
2	2	AN3-5A	BOLT	
50	50	AN960C10L	WASHER	
2	2	AN960JD10L	WASHER	

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

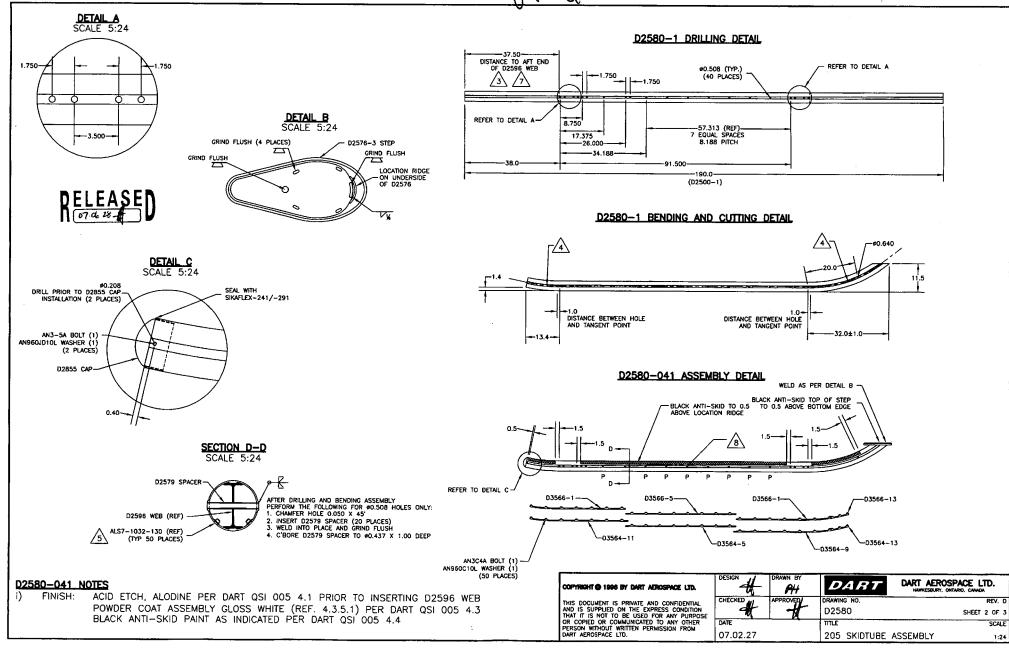
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

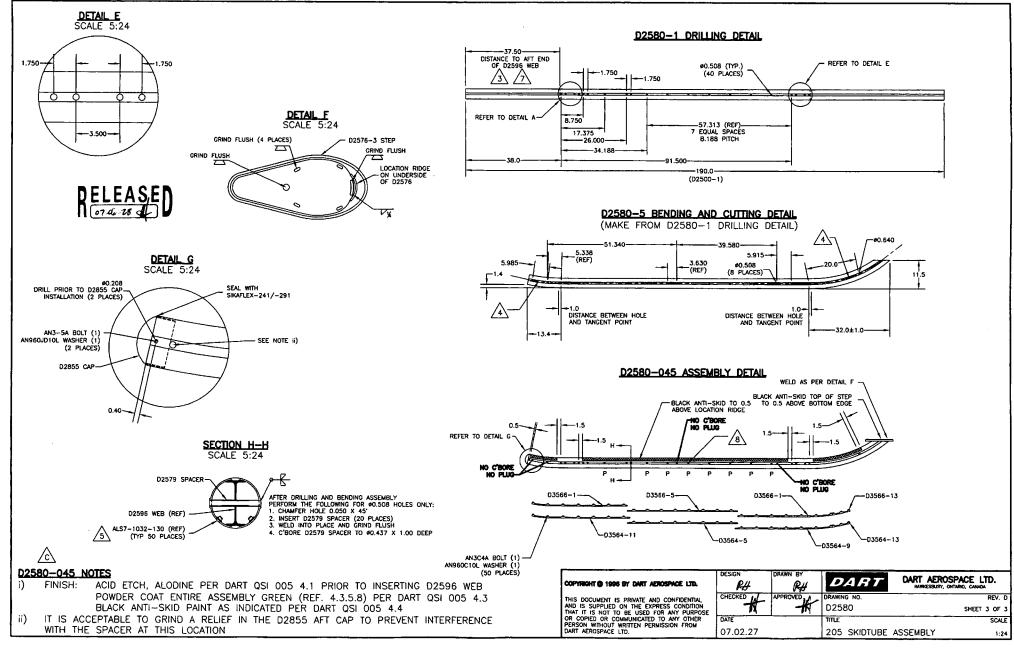
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NO. <u>232</u>

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Baclay Elliott	
Job number: <u>59905</u>	
Part number: <u>D205 - 634 · 041</u>	
Description: 205 skid tube	
Welding Process: Tig[Mig[]	
Base materiel: Aluminian	
Current: AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]
UNACCEPTABLE	•
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[/] fail[]
Qualifier Las. Durs. Welder Booley Elleors	Date of Test Coupon 10.06.01 Date of Test Coupon 10.06.01

The above named individual is qualified in accordance with AWS D17.1.2001 to weld